

Welcome to STN International

<u>NEWS</u>	<u>1</u>	Web Page for STN Seminar Schedule - N. America
NEWS	2	DEC 01 ChemPort single article sales feature unavailable
NEWS	3	JUN 01 CAS REGISTRY Source of Registration (SR) searching enhanced on STN
NEWS	4	JUN 26 NUTRACEUT and PHARMAML no longer updated
NEWS	5	JUN 29 IMSCOPROFILE now reloaded monthly
NEWS	6	JUN 29 EPFULL adds Simultaneous Left and Right Truncation (SLART) to AB, MCLM, and TI fields
NEWS	7	JUL 09 PATDPAFULL adds Simultaneous Left and Right Truncation (SLART) to AB, CLM, MCLM, and TI fields
NEWS	8	JUL 14 USGENE enhances coverage of patent sequence location (PSL) data
NEWS	9	JUL 27 CA/Caplus enhanced with new citing references
NEWS	10	JUL 16 GBFULL adds patent backfile data to 1855
NEWS	11	JUL 21 USGENE adds bibliographic and sequence information
NEWS	12	JUL 28 EPFULL adds first-page images and applicant-cited references
NEWS	13	JUL 28 INPADOCDB and INPAFAMDB add Russian legal status data
NEWS	14	AUG 10 Time limit for inactive STN sessions doubles to 40 minutes
NEWS	15	AUG 17 CAS REGISTRY, the Global Standard for Chemical Research, Approaches 50 Millionth Registration Milestone
NEWS	16	AUG 18 COMPENDEX indexing changed for the Corporate Source (CS) field
NEWS	17	AUG 24 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS	18	AUG 24 CA/Caplus enhanced with legal status information for U.S. patents

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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STRUCTURE FILE UPDATES: 27 AUG 2009 HIGHEST RN 1176980-65-6
 DICTIONARY FILE UPDATES: 27 AUG 2009 HIGHEST RN 1176980-65-6

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

```
=> e ethylene glycol/cn
E1      1    ETHYLENE FURFURL ARSENITE/CN
E2      1    ETHYLENE GERMANATE(IV)/CN
E3      1 --> ETHYLENE GLYCOL/CN
E4      1    ETHYLENE GLYCOL (13C2H6O2)/CN
E5      1    ETHYLENE GLYCOL (2,4,5-TRICHLOROPHOENOXY)ACETATE/CN
E6      1    ETHYLENE GLYCOL (2-CHLORO-4-AMINOPHENYL) ETHER SULFURIC ACID
ESTER/CN
E7      1    ETHYLENE GLYCOL (3-CHLORO-4-AMINOPHENYL) ETHER SULFURIC ACID
ESTERS/CN
E8      1    ETHYLENE GLYCOL (3-METHYL-4-AMINOPHENYL) ETHER SULFURIC ACID
ESTER/CN
E9      1    ETHYLENE GLYCOL .ALPHA.,.ALPHA.-DIHYDROPERFLUOROBUTYL ETHER/
CN
E10     1    ETHYLENE GLYCOL .ALPHA.,.ALPHA.-DIHYDROPERFLUOROOCTYL ETHER/
CN
E11     1    ETHYLENE GLYCOL .ALPHA.-D-GLUCOPYRANOSIDE/CN
E12     1    ETHYLENE GLYCOL 1,1,7-TRIHYDROPERFLUOROHEPTYL ETHER/CN

=> s e3
L1      1 "ETHYLENE GLYCOL"/CN

=> e diethylene glycol/cn
E1      1 DIETHYLENE GLYCOBIS(ALLYL CARBONATE)-1,3,5-TRIS(2-CARBOALLYL
OXETHYL) ISOCYANURATE POLYMER/CN
E2      1 DIETHYLENE GLYCODOILEATE/CN
E3      1 --> DIETHYLENE GLYCOL/CN
E4      1 DIETHYLENE GLYCOL (4-HYDROXY-3,5-DI-TERT-BUTYLBENZOATE) METH
ACRYLATE/CN
E5      1 DIETHYLENE GLYCOL (4-HYDROXY-3,5-DI-TERT-BUTYLBENZOATE) METH
ACRYLATE-TRIMETHYLENE GLYCOL (4-HYDROXY-3-ISOPROPYL-5-METHYL
BENZOATE) METHACRYLATE COPOLYMER/CN
E6      1 DIETHYLENE GLYCOL (4-HYDROXY-3,5-DI-TERT-BUTYLBENZOATE) METHA
CRYLATE POLYMER/CN
E7      1 DIETHYLENE GLYCOL .BETA.,.BETA.-DICHLOROVINYL PHOSPHATE POLY
MER, SRU/CN
E8      1 DIETHYLENE GLYCOL .BETA.-AMINOCROTONATE/CN
E9      1 DIETHYLENE GLYCOL .OMEGA.-CHLOROVALERATE/CN
E10     1 DIETHYLENE GLYCOL 2,2-DIFLUORO-2-NITROETHYL ETHER/CN
```

E11 1 DIETHYLENE GLYCOL 2,3-DIHYDROXYPROPYL METHYL ETHER/CN
 E12 1 DIETHYLENE GLYCOL 2,3-EPOXYPROPYL 2',3'-EPOXY-2'-METHYLPROPYL ETHER-DIETHYLENE GLYCOL GLYCIDYL PROPYL ETHER-ETHYLENE OXIDE GRAFT COPOLYMER/CN

=> s e3
 L2 1 "DIETHYLENE GLYCOL"/CN

=> e polyethylene glycol/cn
 E1 1 POLYETHYLENE FIBERS/CN
 E2 1 POLYETHYLENE FIBERS, ETHYLENE-PROPENE/CN
 E3 1 --> POLYETHYLENE GLYCOL/CN
 E4 1 POLYETHYLENE GLYCOL (1-AZIRIDINYL)ETHYL ETHER/CN
 E5 1 POLYETHYLENE GLYCOL (2:1) ETHER WITH GLYCEROL OCTADECYL MONO ETHER/CN
 E6 1 POLYETHYLENE GLYCOL (2:1) ETHER WITH GLYCEROL TETRADECYL MONO OETHER/CN
 E7 1 POLYETHYLENE GLYCOL (4-VINYLPHENYL)METHYL ETHER-STYRENE GRAFT COPOLYMER/CN
 E8 1 POLYETHYLENE GLYCOL (400) ESTERS OF COCONUT OIL FATTY ACIDS/CN
 E9 1 POLYETHYLENE GLYCOL (DODECYLIMINO)DIETHYL ETHER (2:1)/CN
 E10 1 POLYETHYLENE GLYCOL (METHYLIMINO)DIETHYL ETHER (2:1)/CN
 E11 1 POLYETHYLENE GLYCOL (METHYLOCTADECYLIMINIO)DIETHYL ETHER CHLORIDE/CN
 E12 1 POLYETHYLENE GLYCOL (PENTAERYTHRITOL DIOLEATE) ETHER DISULFATE TRIETHANOLAMINE SALT/CN

=> s e3
 L3 1 "POLYETHYLENE GLYCOL"/CN

=> e propylene glycol/cn
 E1 1 PROPYLENE FUMARATE POLYMER/CN
 E2 1 PROPYLENE FUMARATE-PROPYLENE ISOPHTHALATE COPOLYMER/CN
 E3 1 --> PROPYLENE GLYCOL/CN
 E4 1 PROPYLENE GLYCOL (2-CHLORO-4-AMINOPHENYL) ETHER SULFURIC ACID ESTER/CN
 E5 1 PROPYLENE GLYCOL .BETA.-MONOETHYL ETHER/CN
 E6 1 PROPYLENE GLYCOL 1,2,3-PROPANETRIYL ETHER-TOLUENE DIISOCYANATE POLYMER/CN
 E7 1 PROPYLENE GLYCOL 1,2-DIPROPIONATE/CN
 E8 1 PROPYLENE GLYCOL 1,3-DITOSYLATE/CN
 E9 1 PROPYLENE GLYCOL 1-(TERT-BUTYL ETHER) /CN
 E10 1 PROPYLENE GLYCOL 1-BEHENATE/CN
 E11 1 PROPYLENE GLYCOL 1-METHYL ETHER/CN
 E12 1 PROPYLENE GLYCOL 1-METHYL ETHER 2-ACETATE/CN

=> s i3
 L4 1 "POLYETHYLENE GLYCOL"/CN

=> e dipropylene glycol/cn
 E1 1 DIPROPYLDOPAMINE/CN
 E2 1 DIPROPYLENE CARBONATE/CN
 E3 1 --> DIPROPYLENE GLYCOL/CN
 E4 1 DIPROPYLENE GLYCOL .ALPHA.-METHYL-.BETA.,.BETA.-DICHLOORVINYL PHOSPHATE POLYMER/CN
 E5 1 DIPROPYLENE GLYCOL .ALPHA.-METHYL-.BETA.,.BETA.-DICHLOORVINYL PHOSPHATE POLYMER, SRU/CN
 E6 1 DIPROPYLENE GLYCOL .BETA.,.BETA.-DIBROMOVINYL PHOSPHATE POLYMER/CN

E7 1 DIPROPYLENE GLYCOL .BETA.,.BETA.-DIBROMOVINYL PHOSPHATE POLY
MER, SRU/CN
E8 1 DIPROPYLENE GLYCOL 5,5,6,6,6-PENTAFLUOROHEXYL ETHER SODIUM S
ULFATE/CN
E9 1 DIPROPYLENE GLYCOL ACETATE BENZOATE/CN
E10 1 DIPROPYLENE GLYCOL BENZOATE/CN
E11 1 DIPROPYLENE GLYCOL BIS((6-AMINOHEXYL)CARBAMATE) /CN
E12 1 DIPROPYLENE GLYCOL BIS(2-CHLOROPROPYL) PHOSPHITE/CN

=> s e3
L5 1 "DIPROPYLENE GLYCOL"/CN

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
27.71 27.93

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FILE COVERS 1907 - 30 Aug 2009 VOL 151 ISS 10
FILE LAST UPDATED: 28 Aug 2009 (20090828/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

Cplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/Cplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

=> s l1 or l2 or l3 or l4 or l5
58223 L1
16192 L2
119366 L3
119366 L4
4702 L5

L6 182585 L1 OR L2 OR L3 OR L4 OR L5

=> s 16 and steril?
128272 STERIL?
L7 1331 L6 AND STERIL?

=> s 17 and indicator
177611 INDICATOR
94796 INDICATORS
247067 INDICATOR
(INDICATOR OR INDICATORS)
L8 25 L7 AND INDICATOR

=> d l=10 ti

L8 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

 Citing References

TI Pathogen detection in large-volume particulate samples

L8 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

 Citing References

TI Color change surgical prep solution

L8 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

 Citing References

TI Biological indicator, and its production method

L8 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

 Citing References

TI Hypohalite-peroxide binary compositions and methods for sterilization and disinfection of surfaces and solutions, and production of potable water

L8 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

 Citing References

TI Indicator for plasma sterilization and packaging material for sterilization

L8 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

 Citing References

TI Indicator for plasma sterilization and packaging material for sterilization

L8 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

 Citing References

TI Assay for autoantibodies to folate receptors

L8 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

 Citing References

TI Development of culture medium formulated for diagnosis of bacterial and fungal infection in human buccal cavity

L8 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Citing
 References

TI Sensor for oxidizing agents

L8 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Citing
 References

TI Machine readable sterilization indicator for monitoring articles to be sterilized

=> d 5, 6, 9, 10 18

L8 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full
 Citing
 Text
 References

AN 2004:907085 CAPLUS

DN 141:370660

TI Indicator for plasma sterilization and packaging material for sterilization

IN Sudo, Sadako; Sugiyama, Hiroko; Hayashi, Masufumi

PA Fujimori Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	<u>JP 2004298479</u>	A	20041028	<u>JP 2003-96740</u>	20030331
	<u>JP 4111855</u>	B2	20080702		
PRAI	<u>JP 2003-96740</u>		20030331		

L8 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full
 Citing
 Text
 References

AN 2004:857450 CAPLUS

DN 141:337881

TI Indicator for plasma sterilization and packaging material for sterilization

IN Sutoh, Teiko; Sugiyama, Hiroko; Hayashi, Masushi

PA Fujimori Kogyo Co., Ltd., Japan

SO PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	<u>WO 2004087222</u>	A1	20041014	<u>WO 2003-JP4129</u>	20030331
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

AU_2003221061	A1	20041025	AU_2003-221061	20030331
EP 1609488	A1	20051228	EP 2003-715678	20030331
EP 1609488	B1	20080528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1758926	A	20060412	CN 2003-826257	20030331
AT 396749	T	20080615	AT 2003-715678	20030331

PRAI WO 2003-JP4129 A 20030331

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full ~~Cited~~
Text References

AN 2003:202909 CAPLUS
DN 138:239964
TI Sensor for oxidizing agents
IN Mills, Andrew; Lee, Soo-keun
PA University of Strathclyde, UK
SO PCT Int. Appl., 49 PP.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>WO 2003021252</u>	A1	20030313	<u>WO 2002-GB3994</u>	20020902
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
<u>AU 2002313564</u>	A1	20030318	<u>AU 2002-313564</u>	20020902
<u>EP 1423692</u>	A1	20040602	<u>EP 2002-753159</u>	20020902
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
<u>JP 2005502047</u>	T	20050120	<u>JP 2003-525284</u>	20020902
<u>US 20040258562</u>	A1	20041223	<u>US 2004-487761</u>	20040812
<u>PRAI GB 2001-21444</u>	A	20010905		
<u>WO 2002-GB3994</u>	W	20020902		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full ~~Cited~~
Text References

AN 2002:921810 CAPLUS
DN 137:365946
TI Machine readable sterilization indicator for monitoring articles to be sterilized
IN Kirckof, Steven S.
PA 3M Innovative Properties Company, USA
SO U.S., 47 PP.

CODEN: USXXAM

DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6488890	B1	20021203	US 1999-368742	19990805
JP 2003506153	T	20030218	JP 2001-514988	20000705
PRAI US 1999-368742	A	19990805		
WO 2000-US18354	W	20000705		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

RE.CNT 126 THERE ARE 126 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 5, 6, 9, 10 18 kwic

L8 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Citing
 References

- TI Indicator for plasma **sterilization** and packaging material for **sterilization**
- AB The invention relates to an **indicator** for plasma **sterilization**, suitable for use in a paper or nonwoven fabric packaging material for plasma **sterilization**, wherein the **indicator** contains (1) an adsorption **indicator** and/or chelatometric titrn. metal **indicator**, (2) organometal compd., and (3) polyhydric alc. An **indicator** compn. contg. hematoxylin 1.2, diisopropoxybis(acetylacetonato)titanium 2, polyethylene glycol 3.6, varnish (NT-Vestanis) 72.5, ethanol 18, and UV absorber (Tinuvin 400) 3%.
- ST plasma **sterilization** indicator packaging material; hematoxylin titanium chelating agent polyalc plasma **sterilization** indicator
- IT Polyolefin fibers
- RL: FFD (Food or feed use); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (ethylene; **indicators** for plasma **sterilization** contg. **indicator** components, chelating agents, and polyhydric alc. s. for packaging materials)
- IT Chelating agents
- Indicators**
- Nonwoven fabrics
- Packaging materials
- Paper
- Plasma
- Sterilization** and Disinfection
- (indicators for plasma **sterilization** contg. **indicator** components, chelating agents, and polyhydric alc. s. for packaging materials)
- IT Polyoxyalkylenes, biological studies
- RL: ARU (Analytical role, unclassified); FFD (Food or feed use); TEM (Technical or engineered material use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (indicators for plasma **sterilization** contg. **indicator** components, chelating agents, and polyhydric alc. s. for packaging materials)
- IT Alcohols, biological studies
- RL: ARU (Analytical role, unclassified); FFD (Food or feed use); TEM (Technical or engineered material use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(polyhydric; **indicators** for plasma **sterilization**
 contg. **indicator** components, chelating agents, and polyhydric
 alcs. for packaging materials)

IT 57-55-6, Propylene glycol, biological studies 85-85-8,
 1-(2-Pyridylazo)-2-naphthol 107-21-1, Ethylene glycol,
 biological studies 111-46-6, Diethylene glycol, biological
 studies 517-28-2, Hematoxylin 1611-35-4, Xylenol orange 1667-99-8,
 Mordant blue 29 1787-61-7, Eriochrome black T 7429-90-5D, Aluminum,
 chelating compds. 7440-67-7D, Zirconium, chelating compds. 17927-72-9,
 Diisopropoxybis(acetylacetone)titanium 25265-71-8,
 Dipropylene glycol 25322-68-3, Polyethylene glycol
 RL: ARU (Analytical role, unclassified); FFD (Food or feed use); TEM
 (Technical or engineered material use); THU (Therapeutic use); ANST
 (Analytical study); BIOL (Biological study); USES (Uses)
 (indicators for plasma **sterilization** contg.
 indicator components, chelating agents, and polyhydric alcs.
 for packaging materials)

L8 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Chem
 References

TI Indicator for plasma **sterilization** and packaging material for
sterilization

AB Disclosed are an **indicator** for **sterilization** comprising an indication
 chem. which is useful in plasma **sterilization** with the use of hydrogen
 peroxide; and a packaging material for **sterilization** which has an
 indication unit comprising the above **indicator** for **sterilization** and
 in which a substance to be subjected to a plasma **sterilization** treatment
 is packaged. The above-described **indicator** for **sterilization** contains
 (A) one or more compds. selected from the group consisting of adsorption
 indication chems. and chelate titrn./metal indication chems.. . .
 irreversible color change at a high speed. Thus, it enables definite
 judgment whether or not a subject has been plasma **sterilized** and,
 therefore, is useful as an **indicator** for plasma **sterilization**. By
 further adding (C) a polyhydric alc. to the **indicator**, the color change
 speed can be elevated and well controlled, thereby giving favorable
 indication performance. The above-described packaging material for
sterilization is a packaging material which has a part made of a
 gas-permeable paper or nonwoven fabric and in which a substance to be
 subjected to a plasma **sterilization** treatment is packaged. Since the
 above-described **indicator** for **sterilization** is employed in the
 indication unit of this packaging material, it can be definitely judged
 whether or not a subject has been plasma **sterilized** without affecting
 the **sterilization** performance. A compn. contg. hematoxylin 1,
 diisopropoxybis(acetylacetone)titanium 1, varnish 80.5, methanol 15, and
 UV-absorber (Tinuvin 400) 2.5 % was formulated. . .

ST plasma **sterilization** **indicator** packaging material; hematoxylin
 titanium chelating compd plasma **sterilization** **indicator**

IT Polyolefin fibers

RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);
 ANST (Analytical study); USES (Uses)

(ethylene; **indicator** contg. indicating agents and org. metal
 compds. for plasma **sterilization** and packaging material for
sterilization)

IT Chelating agents

Indicators

 Nonwoven fabrics

 Packaging materials

 Paper

 Plasma

- Sterilization and Disinfection**
 (indicator contg. indicating agents and org. metal compds.
 for plasma **sterilization** and packaging material for
sterilization)
- IT Polyoxalkylenes, analysis
 RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);
 ANST (Analytical study); USES (Uses)
 (indicator contg. indicating agents, org. metal compds., and
 polyalcs. for plasma **sterilization** and packaging material for
sterilization)
- IT Alcohols, analysis
 RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);
 ANST (Analytical study); USES (Uses)
 (polyhydric; indicator contg. indicating agents, org. metal
 compds., and polyalcs. for plasma **sterilization** and packaging
 material for **sterilization**)
- IT 85-85-8, PAN 115-40-2, Bromocresol purple 143-74-8, Phenol red
493-52-7, Methyl red 517-28-2, Hematoxylin 573-58-0, Congo Red
1611-35-4, Xylenol orange 1667-99-8, Mordant blue 29 1787-61-7,
 Eriochrome Black T 14782-75-3, Aluminum ethyl acetooacetate
 diisopropylate 17927-72-9, Diisopropoxybis(acetylacetonato)titanium
67577-42-8, Bromocresol blue
 RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);
 ANST (Analytical study); USES (Uses)
 (indicator contg. indicating agents and org. metal compds.
 for plasma **sterilization** and packaging material for
sterilization)
- IT 7722-84-1, Hydrogen peroxide, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (indicator contg. indicating agents and org. metal compds.
 for plasma **sterilization** and packaging material for
sterilization)
- IT 57-55-6, Propylene glycol, analysis 107-21-1, Ethylene glycol,
 analysis 111-46-6, Diethylene glycol, analysis
25265-71-8, Dipropylene glycol 25322-68-3,
 Polyethylene glycol
 RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);
 ANST (Analytical study); USES (Uses)
 (indicator contg. indicating agents, org. metal compds., and
 polyalcs. for plasma **sterilization** and packaging material for
sterilization)

L8 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN


 References

- AB The irreversible **indicator** for detecting oxidizing agents such as oxygen comprises at least one redox-sensitive dye, at least one semiconductor material and at least one electron donor. This **indicator** is activated by exposure to light of ~200-400 nm. The invention also relates to a UV light detector. The sensor. . . to prolong the useful life of many oxygen-sensitive items (e.g., food, beverages, works of art, pharmaceuticals, medical diagnostic kits and **sterilized** packages).
- IT 9004-35-7, Cellulose acetate 9004-57-3, Ethyl cellulose 9004-62-0,
 Hydroxyethyl cellulose 9011-14-7, Polymethyl methacrylate 24968-97-6,
 Polypyrrolidone 25322-68-3, Polyethylene oxide
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (binder; irreversible dye-based sensor for oxygen and oxidants for use
 in modified atm. packaging)

L8 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Citing References

- TI Machine readable sterilization indicator for monitoring articles to be sterilized

AB A sterilization indicator having sterilizing agent sensitive indicia is described. The indicator allows a sterilization cycle to be monitored without the need for a user to subjectively distinguish between color, quality or intensity of display. . .

ST machine readable sterilization indicator monitoring article sterilized

IT Sterilization and Disinfection
(app.; machine readable sterilization indicator for monitoring articles to be sterilized)

IT Computer program

Electric circuits

Process automation

Process control

Sensors
Sterilization and Disinfection
(machine readable sterilization indicator for monitoring articles to be sterilized)

IT Polyoxyalkylenes, analysis
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(machine readable sterilization indicator for monitoring articles to be sterilized)

IT 3244-88-0, Acid fuchsin sodium salt
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(acid fuchsin sodium salt; machine readable sterilization indicator for monitoring articles to be sterilized)

IT 64-17-5, Ethyl alcohol, analysis 67-63-0, 2-Propanol, analysis 107-21-1, Ethylene glycol, analysis 111-46-6,
Diethylene glycol, analysis 139-33-3, Disodium ethylene diamine tetraacetate 546-93-0, Magnesium carbonate 554-13-2, Lithium carbonate 598-63-0, Lead carbonate 1762-95-4, Ammonium thiocyanate 7492-68-4, Copper carbonate 7704-34-9, Sulfur, analysis 7722-84-1, Hydrogen peroxide, analysis 9004-57-3, Ethyl cellulose 13478-93-8, Nickel dimethylglyoxime 25322-68-3, Polyethylene glycol 87831-33-2, Ethyl Red 325775-15-3, Rhoplex I 545
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(machine readable sterilization indicator for monitoring articles to be sterilized)

IT 325774-99-0, Zephyrset K 6544D
RL: TEM (Technical or engineered material use); USES (Uses)
(machine readable sterilization indicator for monitoring articles to be sterilized)

$\Rightarrow \exists x \forall y \exists z \forall w$

LS ANSWER 5 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 2004:907085 CAPLUS
DOCUMENT NUMBER: 141:370660
TITLE: **Indicator** for plasma **sterilization** and packaging material for **sterilization**
INVENTOR(S): Sudo, Sadako; Sugiyama, Hiroko; Hayashi, Masufumi
PATENT ASSIGNEE(S): Fujimori Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
Patent
DOCUMENT TYPE:

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>JP 2004298479</u>	A	20041028	<u>JP 2003-96740</u>	20030331
<u>JP 4111855</u>	B2	20080702		
<u>PRIORITY APPLN. INFO.:</u>			<u>JP 2003-96740</u>	20030331

L8 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full Cited by
 Text References

ACCESSION NUMBER: 2004:857450 CAPLUS
 DOCUMENT NUMBER: 141:337881
 TITLE: Indicator for plasma sterilization and packaging material for sterilization
 INVENTOR(S): Sutoh, Teiko; Sugiyama, Hiroko; Hayashi, Masushi
 PATENT ASSIGNEE(S): Fujimori Kogyo Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>WO 2004087222</u>	A1	20041014	<u>WO 2003-JP4129</u>	20030331
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
<u>AU 2003221061</u>	A1	20041025	<u>AU 2003-221061</u>	20030331
<u>EP 1609488</u>	A1	20051228	<u>EP 2003-715678</u>	20030331
<u>EP 1609488</u>	B1	20080528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
<u>CN 1758926</u>	A	20060412	<u>CN 2003-826257</u>	20030331
<u>AT 396749</u>	T	20080615	<u>AT 2003-715678</u>	20030331
<u>PRIORITY APPLN. INFO.:</u>			<u>WO 2003-JP4129</u>	20030331
<u>REFERENCE COUNT:</u>	9		THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT	

L8 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full Cited by
 Text References

ACCESSION NUMBER: 2003:202909 CAPLUS
 DOCUMENT NUMBER: 138:239964
 TITLE: Sensor for oxidizing agents
 INVENTOR(S): Mills, Andrew; Lee, Soo-keun
 PATENT ASSIGNEE(S): University of Strathclyde, UK
 SOURCE: PCT Int. Appl., 49 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005021252	A1	20030313	WO 2002-GB3994	20020902
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KE, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002313564	A1	20030318	AU 2002-313564	20020902
EP 1423692	A1	20040602	EP 2002-753159	20020902
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2005502047	T	20050120	JP 2003-525284	20020902
US 20040258562	A1	20041223	US 2004-487761	20040812
PRIORITY APPLN. INFO.:			GB 2001-21444	A 20010905
			WO 2002-GB3994	W 20020902
OS.CITING REF COUNT:	3	THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)		
REFERENCE COUNT:	11	THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L8 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN



ACCESSION NUMBER: 2002:921810 CAPLUS
 DOCUMENT NUMBER: 137:365946
 TITLE: Machine readable sterilization indicator for monitoring articles to be sterilized
 INVENTOR(S): Kirckof, Steven S.
 PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
 SOURCE: U.S., 47 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6488890	B1	20021203	US 1999-368742	19990805
JP 2003506153	T	20030218	JP 2001-514988	20000705
PRIORITY APPLN. INFO.:			US 1999-368742	A 19990805
			WO 2000-US18354	W 20000705
OS.CITING REF COUNT:	5	THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)		
REFERENCE COUNT:	126	THERE ARE 126 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

=> d 11-20 ti

L8 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

[References]

TI Electronic system for tracking and monitoring articles to be **sterilized** and associated method

L8 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

[References]

TI Method of using a chemical **indicator**

L8 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

[References]

TI Measurement of indocyanine green dye is improved by use of polyethylene glycol to reduce plasma turbidity

L8 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

[References]

TI Chemical indicator reader for monitoring **sterilization**

L8 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

[References]

TI Customized **sterilization indicators** and inks printable at point of use

L8 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

[References]

TI Formulation development and antitumor activity of a filter-**sterilizable** emulsion of paclitaxel

L8 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

[References]

TI Interlaboratory validation of the in vitro eye irritation tests for cosmetic ingredients. 6. Evaluation of MATREX

L8 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

[References]

TI Method of obtaining a thermosensitive **indicator** for monitoring dry heat **sterilization processes**

L8 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

[References]

TI Repulpable pressure sensitive adhesive tape and improvement in tack and adhesion

L8 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

[References]

TI Ethylene oxide **sterilization** of allogenic bone implants

=> d 12-15, 18 kwic

L8 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

 Chem
References

- TI Method of using a chemical **indicator**
- AB A **sterilization indicator** having **sterilizing agent sensitive indicia** is described. The **indicator** allows a **sterilization cycle** to be monitored without the need for a user to subjectively distinguish between color, quality or intensity of display. . .
- ST chem **indicator sterilization**
- IT Shellac
- RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(bleached; method of using chem. **indicator**)
- IT Sterilization and Disinfection
(chem. **indicator** for **sterilization**)
- IT Process control
- Sensors
(method of using chem. **indicator**)
- IT Polyoxyalkylenes, analysis
- Polyoxyalkylenes, analysis
- RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(method of using chem. **indicator**)
- IT 598-63-0, Lead carbonate
- RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(Halstab white lead A; method of using chem. **indicator**)
- IT 64-17-5, Ethyl alcohol, analysis 67-63-0, Isopropyl alcohol, analysis 107-21-1, Ethylene glycol, analysis 111-46-6,
Diethylene glycol, analysis 139-33-3, Disodium EDTA 546-93-0,
Magnesium carbonate 554-13-2, Lithium carbonate 1762-95-4, Ammonium thiocyanate 3244-88-0, Acid fuchsin sodium salt 7492-68-4, Copper carbonate 7704-34-9, Sulfur, analysis 7722-84-1, Hydrogen peroxide, analysis 9004-57-3, Ethylcellulose 13478-93-8, Nickel dimethylglyoxime 25322-68-3, PEG 200 325775-15-3, Rhoplex I-545
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(method of using chem. **indicator**)
- IT 325774-99-0, Zephryset K-6544D
- RL: ARU (Analytical role, unclassified); TEM (Technical or engineered material use); ANST (Analytical study); USES (Uses)
(method of using chem. **indicator**)

L8 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

 Chem
References

- AB Indocyanine Green (ICG; CardioGreen; Akorn Inc.) is a **sterile**, water-sol. dye that is used clin. as a dirln. **indicator** for studies involving the heart, liver, lungs, and circulation. When ICG is infused i.v. into the bloodstream, it rapidly binds. . .
- IT 25322-68-3, Polyethylene glycol
- RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(indocyanine green dye is improved by use of polyethylene glycol to reduce plasma turbidity)

L8 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

 Chem
References

- TI Chemical **indicator reader** for monitoring **sterilization**
- AB A reader for a **sterilization indicator** having **sterilizing agent sensitive indicia** is described. The **indicator** allows a **sterilization cycle** to be monitored without the need for a user to subjectively distinguish between color, quality or intensity of display. . .
- ST sterilization monitoring chem **indicator reader**

IT Sterilization and Disinfection
 (app.; chem. indicator reader for monitoring sterilization)

IT Process control

Sensors
 Sterilization and Disinfection
 (chem. indicator reader for monitoring sterilization)

IT Polyoxyalkylenes, analysis
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (chem. indicator reader for monitoring sterilization)

IT 3244-88-0, Acid fuchsin sodium salt
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (acid fuchsin sodium salt; chem. indicator reader for monitoring sterilization)

IT 64-17-5, Ethyl alcohol, analysis 67-63-0, 2-Propanol, analysis 76-59-5, Bromothymol blue 76-60-8, Bromocresol green 76-61-9, Thymol blue 107-21-1, Ethylene glycol, analysis 108-39-4, analysis 111-46-6, Diethylene glycol, analysis 115-39-9, Bromophenol blue 115-40-2, Bromocresol purple 139-33-3, Disodium ethylene diamine tetraacetate 546-93-0, Magnesium carbonate 554-13-2, Lithium carbonate 598-63-0, Lead carbonate 1733-12-6, Cresol red 1762-95-4, Ammonium thiocyanate 7492-68-4, Copper carbonate 7704-34-9, Sulfur, analysis 7722-84-1, Hydrogen peroxide, analysis 9004-57-3, Ethyl cellulose 13478-93-8, Nickel dimethylglyoxime 25322-68-3, Polyethylene glycol 87831-33-2, Ethyl Red 325773-15-3, Rhoplex I 545 325954-69-6, DB 892
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (chem. indicator reader for monitoring sterilization)

IT 325774-99-0, Zephryset K 6544D
 RL: TEM (Technical or engineered material use); USES (Uses)
 (chem. indicator reader for monitoring sterilization)

L8 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Citing References

TI Customized sterilization indicators and inks printable at point of use
 AB A print on demand sterilization indicator having sterilizing agent sensitive indicia is described. The indicator allows a sterilization cycle to be monitored without the need for a user to subjectively distinguish between color, quality or intensity of display patterns. The present invention comprises a sterilization indicator and monitoring method that affords the user the ability to: (a) acquire, store and use sterilization monitoring information quickly and cost effectively without the delay, cost and inaccuracy assoccd. with prior art sterilization indicators, (b) reduce sterile products inventory hold time, increase the accuracy of information storage and provide higher levels of accuracy in data management, (c) possess a unified, integrated sterility assurance and inventory management system, (d) minimize the potential for human error in a system for monitoring the sterilization of articles, and (e) customize sterilization assurance information for site specific needs. In one aspect, the present invention comprises a system for creating a chem. indicator for monitoring a sterilization process. The system comprises a graphical user interface for exchanging information between a user and computer means. The computer means of the present invention comprises storage means for storing information relating to at least two types of sterilization procedures, at least two

different types of **sterilization sensitive** indicating inks corresponding to the **sterilization** procedures, and at least one pattern for printing the inks. The graphical user interface including means for selecting from information stored in the storage means; and printing means for printing the chem. **indicator** on a backing. In another aspect of the present invention, the present invention comprises a method of providing a **sterility assurance process** at a health-care facility comprising the steps of: (1) providing options for the components of a **sterilization indicator**; (2) choosing from among the options; and (3) then printing the **sterilization indicator** at the health-care facility.

ST sterilization disinfection indicator ink printer reader quality

IT Sterilization and Disinfection
 (app.; customized **sterilization indicators** and inks
 printable at point of use)

IT Bar code labels

Colorimetric indicators

Computers

Graphic arts

Ink-jet printers

Ink-jet printing

Printing (impact)

Printing (nonimpact)

Quality control

Spectrophotometry

Sterilization and Disinfection
 (customized **sterilization indicators** and inks
 printable at point of use)

IT Polyoxalkylenes, analysis
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (customized **sterilization indicators** and inks
 printable at point of use)

IT Inks
 (indicator inks, ink jet cartridge; customized
sterilization indicators and inks printable at point
 of use)

IT Printing apparatus
 (ink jet cartridge; customized **sterilization**
indicators and inks printable at point of use)

IT Inks
 (jet-printing, **sterilization sensitive**; customized
sterilization indicators and inks printable at point
 of use)

IT Indicators
 Inks
 (**sterilization sensitive**; customized **sterilization**
indicators and inks printable at point of use)

IT Information systems
 (storage; customized **sterilization indicators** and
 inks printable at point of use)

IT 139-33-3 546-93-0, Magnesium carbonate 554-13-2, Lithium carbonate 598-63-0, Lead carbonate 1762-95-4, Ammonium thiocyanate 3244-88-0
 7492-68-4, Copper carbonate 7704-34-9, Sulfur, analysis 13478-93-8,
 Nickel dimethylglyoxime 25322-68-3, Peg
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (customized **sterilization indicators** and inks
 printable at point of use)

IT 75-21-0, Ethylene oxide, biological studies 79-21-0, Peracetic acid
 7722-84-1, Hydrogen peroxide, biological studies
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(customized **sterilization indicators** and inks
printable at point of use)

IT 7732-18-5, Water, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(steam; customized **sterilization indicators** and
inks printable at point of use)

L8 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Citing References

TI Method of obtaining a thermosensitive **indicator** for monitoring dry heat sterilization processes

AB Indicator solns. for monitoring dry heat **sterilization** are obtained by mixing different proportions of the following three solns.: sodium hydroxide or potassium hydroxide in ethylene glycol or . . .

ST dry heat **sterilization** thermosensitive **indicator**

IT Sterilization and Disinfection
(method of obtaining a thermosensitive **indicator** for monitoring dry heat **sterilization** processes)

IT 56-81-5, Glycerol, uses 61-73-4, Methylene blue 107-21-1,
Ethylene glycol, uses 118-91-2, 2-Chlorobenzoic acid 1310-58-3,
Potassium hydroxide, uses 1310-73-2, Sodium hydroxide, uses
RL: NUU (Other use, unclassified); USES (Uses)
(method of obtaining a thermosensitive **indicator** for monitoring dry heat **sterilization** processes)

=> d 15, 18 ibib

L8 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full Citing Text References

ACCESSION NUMBER: 2001:115011 CAPLUS
DOCUMENT NUMBER: 134:159892
TITLE: Customized **sterilization indicators** and inks
printable at point of use
INVENTOR(S): Hehenberger, Rodney K.; Ignacio, Ramon T.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: PCT Int. Appl., 88 pp.
CODEN: PIXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001010473	A1	20010215	WO 2000-US18360	20000705
W: JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				
PT, SE				
EP 1200136	A1	20020502	EP 2000-943388	20000705
EP 1200136	B1	20080507		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, FI, CY				
JP 2003506154	T	20030218	JP 2001-514989	20000705
PRIORITY APPLN. INFO.:			US 1999-369108	A 19990805
			WO 2000-US18360	W 20000705
OS.CITING REF COUNT:	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD		

(1 CITINGS)
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full Citing
Text References

ACCESSION NUMBER: 1995:997491 CAPLUS
 DOCUMENT NUMBER: 124:66692
 ORIGINAL REFERENCE NO.: 124:12321a,12324a
 TITLE: Method of obtaining a thermosensitive indicator for monitoring dry heat sterilization processes
 INVENTOR(S): Kalczynski, Tadeusz
 PATENT ASSIGNEE(S): Pol.
 SOURCE: Pol., 3 pp.
 CODEN: POXXA7
 DOCUMENT TYPE: Patent
 LANGUAGE: Polish
 FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 167254	B1	19950831	PL 1992-294830	19920609
<u>PRIORITY APPLN. INFO.:</u>				
			PL 1992-294830	19920609

=> d 18 all

L8 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full Citing
Text References

AN 1995:997491 CAPLUS
 DN 124:66692
 OREF 124:12321a,12324a
 ED Entered STN: 22 Dec 1995
 TI Method of obtaining a thermosensitive indicator for monitoring dry heat sterilization processes
 IN Kalczynski, Tadeusz
 PA Pol.
 SO Pol., 3 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 IC ICM G01N031-22
 ICS G01N033-00
 CC 63-8 (Pharmaceuticals)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 167254	B1	19950831	PL 1992-294830	19920609
<u>PRAI PL 1992-294830</u>				

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
PL 167254	ICM	G01N031-22
	ICS	G01N033-00
	IPCI	G01N0031-22 [ICM,6]; G01N0033-00 [ICS,6]
	IPCR	G01N0031-22 [I,C*]; G01N0031-22 [I,A]; G01N0033-00 [I,C*]; G01N0033-00 [I,A]

AB Indicator solns. for monitoring dry heat sterilization are obtained by mixing different proportions of the following three solns.: sodium hydroxide or potassium hydroxide in ethylene glycol or glycerol, 2-chlorobenzoic acid in glycol or glycerol, methylene blue in glycol or glycerol.

ST dry heat sterilization thermosensitive indicator

IT Sterilization and Disinfection
 (method of obtaining a thermosensitive indicator for monitoring dry heat sterilization processes)

IT 56-81-5, Glycerol, uses 61-73-4, Methylene blue 107-21-1, Ethylene glycol, uses 118-91-2, 2-Chlorobenzoic acid 1310-58-3, Potassium hydroxide, uses 1310-73-2, Sodium hydroxide, uses RL: NUU (Other use, unclassified); USES (Uses)
 (method of obtaining a thermosensitive indicator for monitoring dry heat sterilization processes)

=> d 21-25 ti

L8 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

**Chrg
References**

TI Indicator inks for sterilization by ethylene oxide

L8 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

**Chrg
References**

TI Sterilization by gases at low temperature

L8 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

**Chrg
References**

TI Antimicrobial heat treatment of nonaqueous, hydrophilic solutions

L8 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

**Chrg
References**

TI Ethylene oxide sterilization indicator

L8 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

**Chrg
References**

TI Radiation dosimeters

=> d 21, 22, 24, 25 ti, kwic

L8 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

**Chrg
References**

TI Indicator inks for sterilization by ethylene oxide

TI Indicator inks for sterilization by ethylene oxide

AB . . . printed on paper and exposed to air contg. 500 mg/L ethylene oxide at 50° for 2 h (conditions for conventional sterilization).

The ink turned green, the color being more intense in moist air.

ST ethylene oxide sterilization indicator; azo dye indicator sterilization; acrylic acid copolymer ink; benzothiazole deriv indicator ink; ink indicator sterilization oxirane; methacrylic acid copolymer ink

IT Sterilization and Disinfection

(by ethylene oxide, **indicator** inks for)

IT Indicators
 (for sterilization, by ethylene oxide, colored inks as)

IT Inks
 (indicator, sterilization-sensitive, for ethylene oxide, contg. poly[(meth)acrylic acid] and (benzo)thiazole azo dyes)

IT 6373-93-9 9003-01-4 25087-26-7 25751-21-7

RL: MOA (Modifier or additive use); USES (Uses)
 (inks, indicators for sterilization by ethylene oxide)

IT 75-21-8, biological studies 25322-68-3
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (sterilization by, indicator inks for)

L8 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Filter
References

TI Sterilization by gases at low temperature

TI Sterilization by gases at low temperature

AB Materials such as surgical catheters, syringes, etc., may be sterilized by using gases such as HCHO [50-00-0] or ethylene oxide [75-21-8] at low temps. The gas is obtained by evapn. . . and 73.7% water. At 60° the gaseous phase had 9.8 mg/L HCHO and the humidity was 90%. The capacity of sterilization of the gas was tested by using spores of Bacillus subtilis as the biol. indicators. The no. of spores after a 30 min sterilization of a polyethylene material (contg. 8 x 105.6 spores) was 16. An app. for generation of the gas is described.

ST sterilization surgical good gas; formaldehyde sterilization surgical good; ethylene oxide sterilization surgical good

IT Sterilization and Disinfection
 (by ethylene oxide or formaldehyde, of surgical goods)

IT Surgical dressings and goods
 (sterilization of, ethylene oxide or formaldehyde for)

IT Alcohols, biological studies
 RL: BIOL (Biological study)
 (polyhydric, sterilization of surgical goods by formaldehyde in solns. of)

IT 50-00-0, biological studies 75-21-8, biological studies
 RL: BIOL (Biological study)
 (sterilization by, of surgical goods)

IT 56-81-5, biological studies 57-55-6, biological studies 67-56-1,
 biological studies 107-21-1, biological studies
25322-68-3
 RL: BIOL (Biological study)
 (sterilization of surgical goods by formaldehyde in solns. of)

L8 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Filter
References

TI Ethylene oxide sterilization indicator

TI Ethylene oxide sterilization indicator

AB A monitoring device for use in ethylene oxide (I) [75-21-8] sterilizing systems consisting of an envelope contg. an **indicator** coated with a dye, which besides showing a color change on completion of the sterilization cycle also indicates the completion of the subsequent aeration cycle. E.g., filter paper was impregnated with a mixt. of polyethylene glycol 200 [25322-68-3] 40-60, polyethylene glycol 400 40-60, 4-(p-nitrobenzyl)pyridine [1083-48-3] 1-2.5, thiourea [62-56-6] 1-1.5, and

water 2-3 g and placed in a packaging envelope with a transparent front and gas penetrable back. The **indicator** turns from white to violet when ethylene oxide **sterilization** is complete and from violet to gray and then gray green when aeration is complete.

- ST ethylene oxide **sterilization indicator**; nitrobenzylpyridine ethylene oxide **indicator**; pyridine nitrobenzyl ethylene oxide **indicator**
- IT Sterilization and Disinfection
(by ethylene oxide, **indicator** for)
- IT 1083-48-3 25322-68-3 62-56-6, uses and miscellaneous
RL: BIOL (Biological study)
(in **sterilization indicator**, for ethylene oxide)
- IT 75-21-8, biological studies
RL: BIOL (Biological study)
(**sterilization indicator** for)

L8 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full Cloned
 Text Preferences

TI Radiation dosimeters

AB A soln. contg. an acid-base **indicator** and a base such as H₂O, EtOH, or ethylene glycol in a medium such as a low-mol.-wt. aliphatic alc., which . . . vinylidene chloride, which liberates an acid when exposed to radiation, to give a dosimeter which can be used in radiation **sterilization**. Thus, a soln. is prepnd. from 1 g. methyl orange, 850 ml. Me₂CO, and 150 ml. H₂O, poly(vinyl chloride), thickness. . . dried at room temp. and cut to give yellow placards. The placards are placed on objects which are to be **sterilized** with radiation from Co60, the placards and the object are exposed to approx. 2.5 Mrad, and the color of the. . .

IT Indicators (for titration)

(acid-base, polymers releasing acid by radiation contg., dosimeters from)

IT Dosimeters

(from acid-base **indicator** and acid-releasing polymer)

IT 9002-85-1, Ethylene, 1,1-dichloro-, homopolymer 9002-86-2, Ethylene, chloro-, homopolymer
(radiation dosimeter from acid-base **indicator** and)

IT 64-17-5, Ethyl alcohol

(radiation dosimeter from acid-base **indicators**, polymers and)

IT 67-64-1, Acetone 107-21-1, Ethylene glycol 628-63-7, Pentyl acetate 7732-18-5, Water
(radiation dosimeter from polymer, acid-base **indicator** and)

=> d 21, 22, 24 ibib

L8 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full Cloned
 Text Preferences

ACCESSION NUMBER: 1986:444950 CAPLUS
DOCUMENT NUMBER: 105:44950
ORIGINAL REFERENCE NO.: 105:7425a, 7428a
TITLE: Indicator inks for **sterilization** by ethylene oxide
INVENTOR(S): Yamamoto, Masashi
PATENT ASSIGNEE(S): Sakura Color Products Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60243173	A	19851203	JP 1984-99292	19840516
PRIORITY APPLN. INFO.:			JP 1984-99292	19840516

L8 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full References

ACCESSION NUMBER: 1983:600576 CAPLUS
 DOCUMENT NUMBER: 99:200576
 ORIGINAL REFERENCE NO.: 99:30794h, 30795a
 TITLE: Sterilization by gases at low temperature
 INVENTOR(S): Hennebert, Pierre; Gillard, Jean; Roland, Michel
 PATENT ASSIGNEE(S): Belg.
 SOURCE: Belg., 18 pp.
 CODEN: BEXXAL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 895729	A1	19830728	BE 1983-209987	19830128
US 4637916	A	19870120	US 1984-571765	19840118
IL 70768	A	19880331	IL 1984-70768	19840124
DK 8400366	A	19840729	DK 1984-366	19840126
FI 8400348	A	19840729	FI 1984-348	19840127
NO 8400325	A	19840730	NO 1984-325	19840127
NO 157284	B	19871116		
NO 157284	C	19880224		
JP 59224639	A	19841217	JP 1984-14180	19840127
AT 20310	T	19860615	AT 1984-870011	19840127
AU 559036	B2	19870219	AU 1984-23845	19840127
CA 1232424	A1	19880209	CA 1984-446178	19840127
EP 117860	A1	19840905	EP 1984-870011	19840905
EP 117860	B1	19860611		
EP 117860	B2	19890531		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4764351	A	19880816	US 1984-675169	19841127
PRIORITY APPLN. INFO.:			BE 1983-895729	19830128
			BE 1983-209987	A 19830128
			US 1984-571765	A3 19840118
			EP 1984-870011	A 19840127

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD
 (7 CITINGS)

L8 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

Full References

ACCESSION NUMBER: 1977:47301 CAPLUS
 DOCUMENT NUMBER: 86:47301
 ORIGINAL REFERENCE NO.: 86:7500h, 7501a
 TITLE: Ethylene oxide sterilization indicator
 INVENTOR(S): Whitbourne, James E.; Eastman, Carolyn A.
 PATENT ASSIGNEE(S): Sybron Corp., USA
 SOURCE: U.S., 4 pp.
 CODEN: USXXAM

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3992154	A	19761116	US 1975-643189	19751222
CA 1973327	A1	19800311	CA 1976-263986	19761022
AU 7620616	A	19780622	AU 1976-20616	19761216
AU 498337	B2	19790301		

PRIORITY APPLN. INFO.: US 1975-643189 A 19751222
 OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
 (4 CITINGS)

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(FILE 'HOME' ENTERED AT 12:47:31 ON 30 AUG 2009)

FILE 'REGISTRY' ENTERED AT 12:47:56 ON 30 AUG 2009
 E ETHYLENE GLYCOL/CN

L1 1 S E3
 E DIETHYLENE GLYCOL/CN
 L2 1 S E3
 E POLYETHYLENE GLYCOL/CN
 L3 1 S E3
 E PROPYLENE GLYCOL/CN
 L4 1 S L3
 E DIPROPYLENE GLYCOL/CN
 L5 1 S E3

FILE 'CAPLUS' ENTERED AT 12:49:18 ON 30 AUG 2009

L6 182585 S L1 OR L2 OR L3 OR L4 OR L5
 L7 1331 S L6 AND STERIL?
 L8 25 S L7 AND INDICATOR

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